AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims:

- 1. (Currently Amended) A drug delivery device comprising:
 - a catheter or syringe having a distal portion, and
 - a needle attached to the distal portion, the needle comprising during use:
 - a shaft having a distal end defining a distal opening and having a longitudinal axis extending through the distal opening,
 - the distal opening having a projected area that is smaller than a cross-sectional area of a section of the shaft proximal to the distal end of the shaft,
 - wherein the distal-most end is a curvilinear blunt tip.
- (Currently Amended) The needle of claim 1, wherein the distal end comprises opposing first and second surfaces and the first surface is indented towards the second surface to form a concavity on an outer portion of the first surface.
- (Original) The needle of claim 1, wherein the distal end of the shaft comprises at least one port on a side surface thereof.
- (Canceled)
- 5. (Original) The needle of claim 1, wherein the distal end of the shaft is tapered.
- 6-12. (Canceled)
- 13. (Currently Amended) A method of delivering a therapeutic agent to a target site of a body comprising:
- providing <u>a</u> the drug delivery device of claim 1 containing a therapeutic agent comprising:

a non-coring needle having a distal end defining a distal opening and having a longitudinal axis extending through the distal opening.

the distal end comprising a first surface indented towards a second surface to form a concavity on an outer portion of the first surface.

the second surface being parallel to the longitudinal axis of the shaft,

the distal opening having a projected area that is smaller than a cross-sectional area of a section of the shaft proximal to the distal end of the shaft;

puncturing a body tissue with the non-coring needle tip; and delivering the therapeutic agent through the non-coring needle to a target site of a body.

- 14. (Canceled)
- 15. (Original) The method of claim 13, wherein the target site is selected from a group consisting of the heart, lung, brain, liver, skeletal muscle, smooth muscle, kidney, bladder, intestines, stomach, pancreas, ovary, prostate and cartilage.
- 16. (Original) The method of claim 13, wherein delivering the therapeutic agent comprises directly delivering the therapeutic agent to the target site.
- (Currently Amended) A method of accessing a drug delivery port comprising: providing a the drug delivery device of claim 1 comprising:

a non-coring needle having a distal end defining a distal opening and having a longitudinal axis extending through the distal opening,

the distal end comprising a first surface indented towards a second surface to form a concavity on an outer portion of the first surface,

the second surface being parallel to the longitudinal axis of the shaft,

the distal opening having a projected area that is smaller than a cross-sectional area of a section of the shaft proximal to the distal end of the shaft; and

inserting the needle of the drug delivery device into a drug delivery port to access the drug delivery port.

18. (Original) The method of claim 17, wherein accessing the drug delivery port comprises introducing a therapeutic agent through the needle into the drug delivery port.

19. (Canceled)

20. (Original) The method of claim 17, wherein the drug delivery port comprises a septum, the needle of the drug delivery device piercing the septum to access the drug delivery port.

- 21. (Currently Amended) A The method of claim 13, wherein the target site is delivering a therapeutic agent to a spinal column comprising; providing the drug delivery device of claim 1 containing a therapeutic agent; and introducing the therapeutic agent through the needle into a spinal column.
- (Currently Amended) A method of collecting a fluid sample from a body comprising: providing <u>a</u> the drug delivery device of claim 1 comprising:

a non-coring needle having a distal end defining a distal opening and having a longitudinal axis extending through the distal opening,

the distal end comprising a first surface indented towards a second surface to form a concavity on an outer portion of the first surface.

the second surface being parallel to the longitudinal axis of the shaft,

the distal opening having a projected area that is smaller than a cross-sectional area of a section of the shaft proximal to the distal end of the shaft;

puncturing a body tissue with the non-coring needle;

inserting the needle into a fluid containment site of a body; and

creating a vacuum in the drug delivery device to collect a fluid sample from the fluid containment site of the body.

 (Original) The method of claim 22, wherein the fluid sample comprises blood, amniotic fluid, serous fluid, or cerebrospinal fluid.

24-31. (Canceled)

(Currently Amended) The needle of claim 36 [[2]], wherein the distal opening is a U-shape.

- (Currently Amended) The needle of claim 34 [[2]], wherein the second surface is parallel
 to the longitudinal axis of the shaft.
- (Currently Amended) A drug delivery device comprising:

a catheter or syringe having a distal portion, and

a needle attached to the distal portion, the needle comprising during use:

a shaft having a tapered distal end comprising a first surface indented towards a second surface to define a distal opening having a U-shape when viewed from the distal end.

the shaft having a longitudinal axis extending through the distal opening, the distal opening having a projected area that is smaller than a cross-sectional

the distal opening having a projected area that is smaller than a cross-sectional area of a section of the shaft proximal to the distal end of the shaft.

35. (Currently Amended) The needle of claim 34, wherein the distal opening is closed along a portion thereof. A drug delivery device comprising:

a catheter or syringe having a distal portion,

a needle attached to the distal portion, the needle comprising during use:

a shaft having a distal end comprising a first surface indented towards a second surface to define a discontinuous distal opening, thereby forming a concavity on an outer portion of the first surface,

said distal opening having a generally U-shaped configuration when viewed from the distal end,

the shaft having a longitudinal axis extending through the distal opening,

the distal opening having a cross-sectional area that is smaller than a crosssectional area of a section of the shaft proximal to the distal end of the shaft.

36. (Currently Amended) A needle comprising:

- a catheter or syringe having a distal portion, and
- a needle attached to the distal portion, the needle comprising during use:
- a shaft having a tapered distal end defining a distal opening and having a longitudinal axis extending through the distal opening.
- the distal end comprising a first surface $\frac{\text{only}}{\text{only}}$ indented towards a second surface $\frac{\text{to}}{\text{o}}$ form a concavity on an outer portion of the first surface.

the second surface being parallel to the longitudinal axis of the shaft,

the distal opening having a projected area that is smaller than a cross-sectional area of a section of the shaft proximal to the distal end of the shaft.

- (Cancelled)
- 38. (Cancelled)
- 39. (New) The needle of claim 34, wherein the distalmost end is a curvilinear blunt tip.
- 40. (New) The needle of claim 35, wherein the distalmost end is a curvilinear blunt tip.
- 41. (New) The needle of claim 36, wherein the distalmost end is a curvilinear blunt tip.
- 42. (New) The needle of claim 34, wherein the distal end of the shaft comprises at least one port on a side surface thereof.
- 43. (New) The needle of claim 35, wherein the distal end of the shaft comprises at least one port on a side surface thereof.
- 44. (New) The needle of claim 36, wherein the distal end of the shaft comprises at least one port on a side surface thereof.
- 45. (New) The method of claim 16, wherein the target site is the heart.

46. (New) The method of claim 16, wherein the target site is the myocardium.